FIELD CROP ABSTRACTS

Volume 29

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The Commonwealth Bureau of Pastures and Field Crops is located at the Grassland Research Institute, Hurley, and is one of a group of 10 Bureaux and 4 Institutes which together form the Commonwealth Agricultural Bureaux, an organization financed and administered jointly by the various Commonwealth Governments and Dependent Territories. The Commonwealth Agricultural Bureaux produce 21 abstract journals covering the major branches of agricultural and related sciences. The journals and their subscription rates are listed on the back cover.

The Bureau prepares two monthly journals, *Herbage Abstracts* and *Field Crop Abstracts,* for publication by the Commonwealth Agricultural Bureaux, Farnham Royal, Bucks. These journals contain abstracts of the research findings reported in the world scientific literature on annual field crops, pastures, herbage plants and rangelands and provide both a comprehensive guide to current scientific and technological developments in their subjects and a key to the literature published in the past. In addition to abstracts, the Bureau also issues reviews and monographs on selected subjects.

Scope of Field Crop Abstracts: The subjects covered include the agronomy and major aspects of the biology of all annual field crops grown for food, fodder, oil and fibre, and of tobacco. Land use, farming systems, agricultural meteorology and the control of weeds, pests and diseases are dealt with only in so far as they concern the crop coverage.

The Bureau is prepared, on request, to undertake literature searches and to compile bibliographies on subjects within its scope. A list of bibliographies already compiled is published in this journal.

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NOTES TO READERS

The address given at the end of abstract citations is that of the first author at the time of writing and is normally where the work was carried out.

Transliteration of Cyrillic script is based on the International Standard ISO/R9 1968 (E).

The titles of periodicals and reports conform where possible to those given in the *World List of Scientific Periodicals* (4th Edn; London: Butterworth) and are listed in *Field Crop Abstracts* Vol. 30, No. 1, pp. 1-11; they can also be obtained as a separate from the Bureau of Pastures and Field Crops, Hurley, Maidenhead SL6 5LR, price £1.00.

One-side-only copies of *Field Crop Abstracts* are available at no extra cost.

LANGUAGE SYMBOLS

The language symbols used are listed below. An initial capital letter denotes the main language of a paper, a small letter the language of the summary(ies).

Af	Afrikaans	Fi	Finnish	Nl	Dutch, Flemish
Al	Albanian	Fr	French	No	Norwegian
Ar	Arabic	Gr	Greek	Pe	Persian
Be	Belorussian	He	Hebrew	Pl	Polish
Bg	Bulgarian	Hu	Hungarian	Pt	Portuguese
Ch	Chinese	Ia	Interlingua	Ro	Romanian
Cr	Croat	In	Indonesian	Ru	Russian
Cs	Czech	Is	Icelandic	Sh	Serbo-Croat
Da	Danish	It	Italian	Sk	Slovak
De	German	Ja	Japanese	Sn	Slovene
Ee	Estonian	Ko	Korean	Sr	Serbian
En	English	La	Latin	Sv	Swedish
Eo	Esperanto	Li	Lithuanian	Tr	Turkish
Es	Spanish	Lv	Latvian	Uk	Ukrainian
		Ma	Macedonian		

ABBREVIATIONS

The abbreviations used for the names of common units, mathematical operations, chemical elements, etc., are in accordance with British Standard 1991 : 1967. The following additional abbreviations are also used:

a.e.	–	acid equivalent	*FCA*	–	*Field Crop Abstracts*
a.i.	–	active ingredient	*HbA*	–	*Herbage Abstracts*
alt.	–	altitude	LAI	–	leaf-area index
CGR	–	crop growth rate	LAR	–	leaf-area ratio
cv.	–	cultivar(s)	NAR	–	net assimilation rate
DM	–	dry matter	OM	–	organic matter
F . . . s	–	from . . . summary	RGR	–	relative growth rate
f.y.m.	–	farmyard manure			

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 29

Page	*Abstract*	*Line*	
40	417	7	For 'phenyl' read 'phenylalanine'
162	1785	11	Insert 'enzyme' after 'nucleoplasmic'
170	1867	3	Insert 'Kuala Lumpur,' before 'Malaysia'
220	2469	8	Insert 'of' after 'treatment'
222	2505	4	Insert '&' after '*Agriculture*'
224	2519	25	Insert 'so' after 'not'
228	2561	2	For '**chetnut**' read '**chestnut**'
231	2592	7	Insert 'was' before 'positively'
234	2622	7	Delete comma after 'growth'. Insert 'of' after 'growth'
238	2665	4	For 'Arsha' read 'Arusha'
241	2701	9	For 'flory-2' read 'floury-2'
241	2703	10	For 'sh_4' read 'sh_4'
242	2714	4	For 'S c i.' read 'Sci.'
246	2749	3	For '***Orysa***' read '***Oryza***'
248	2779	1	For 'KASIVISWLINGAM' read 'KASIVISWALINGAM'
251	2810	17	For 'complex' read 'complexed'. For 'amylase' read 'amylose'
256	2871	11	For 'but' read 'bunt'
256	2872	6	Insert '*and*' after '*Agriculture*'
257	2885	4	For '*p shenitsy*' read '*pshenitsy*'
258	2896	3	For '*Chemical*' read '*Cereal*'
261	2931	1	For 'GOROL'KOVA' read 'GOROL'KOVA'
262	2935	4	For 'Neours' read 'Nemours'
265	2965	3	Insert 'fr' after 'En,'
267	2992	20	Insert 'but seemed' after 'roots'
272	3048	13	For 'total' read 'overall'
274	3070	3	For 'Mechanistatie' read 'Mechanisatie'
274	3070	5	For '*Corticum*' read '*Corticium*'
275	3076	4	For '*=III-A*' read '*-III-a*'
276	3094	19	For 'deterioraton' read 'deterioration'
278	3106	5	Insert 'Ghana' before 'University'
279	3124	1	For '**serozen-**' read '**serozem**'
279	3131	7,8	For 'of cotton cultivars' read 'infection was studied'
280	3140	3	Insert '**under**' before '**Sudan**'
280	3141	3	For '*physiology*' read '*Physiology*'
281	3152	1	For 'MERDITH' read 'MEREDITH'
283	3170	7	For 'americanum' read '*americanum*'
283	3183	2	For '**Interation**' read '**Interaction**'
290	3249	4	For 'Heidleberg' read 'Heidelberg'
290	3251	3	Insert '*for 1973*' after '*Report*'
291	3262	3	For '*Roliczych*' read '*Rolniczych*'
291	3263	3	For '*Seszyty*' read '*Zeszyty*'
298	3349	1	For 'LOUSIANA' read 'LOUISIANA'
301	[3418]	3	For '**isotropically**' read '**isotopically**'
303	3455	2	Insert '**and**' after '**acid**'
303	3456	3	For 'Zanie' read 'Znanie'
307	3483	4	Insert '*Navuk*' before '(1975)'
327	3697	10	For 'δ' read 'σ'
383	4328	3	Add 'GMC' at end of line
451	5066	6	Insert 'stress' after 'moisture'
456	5124	8	For 'B. napus' read '*B. napus*'
652	7410	2,3	For '[**Agroplantae**] *Natural cross-pollination in cotton at Upington*' read '[**Natural cross-pollination in cotton at Upington**] *Agroplantae*'
652	7411	2	For '**Gossypium hirsutum**' read '***Gossypium hirsutum***'
822	9301	7	For 'N-ha' read 'N/ha'
855	9634	9	Write 'Panicum miliaceum' in italics
857	9657	8	Take over 'dep'
879	9886	7	For 'N-hydroxy-' read '*N*-hydroxy-'
895	10060	23	For 'δ9(11)-' read '△9(11)-'
898	10103	9	For '17130' read 'złoty 7130.' For '75 70' read '7570'
904	[10194]	45	Write 'From pea' to 'isolated.' in Roman
905	10213	1	For 'ET AL.' read '*ET AL.*'

FIELD CROP ABSTRACTS VOLUME 29, 1976

CONTENTS

ABSTRACTS:

CEREALS

Wheat	1	63	131	219	305	385	473	543	613	665	727	817
Oats	9	70	139	229	315	396	481	555	619	673	739	832
Rye	9	72	140	230	316	398	482	556	620	674	741	834
Triticale	10	–	140	231	317	398	483	556	620	674	741	834
Barley	10	72	140	231	318	398	483	557	620	675	742	834
Wild-rice	12	73	–	–	–	–	–	–	–	–	747	–
Maize	12	75	144	236	322	403	486	560	622	677	747	838
Sweet corn	–	81	151	244	330	411	491	566	–	–	755	–
Rice	18	81	152	245	331	411	492	566	627	683	755	846
Sorghum	22	86	157	254	337	419	497	570	631	688	760	852
Pennisetum typhoides	–	87	158	255	338	420	499	572	632	689	763	853
Panicum miliaceum	23	88	–	255	338	420	–	572	632	689	763	854
Panicum miliare	–	–	–	–	–	–	–	–	–	–	–	–
Eleusine coracana	–	88	159	256	339	421	499	572	632	689	763	854
Minor cereals	–	–	–	256	–	–	500	–	–	–	–	854
Cereals, general	23	88	159	256	339	421	500	572	633	690	764	854

LEGUMES

Soyabeans	24	90	160	257	340	422	501	573	633	691	766	856
Groundnuts	26	92	164	259	343	425	505	576	635	693	768	860
Peas	27	94	165	260	345	426	507	578	636	695	770	861
Vicia spp.	29	97	169	263	347	429	509	580	638	697	771	864
Phaseolus spp.	29	98	169	264	348	430	510	580	639	697	773	865
Vigna spp.	31	100	172	267	352	434	512	582	640	699	777	868
Trifolium spp.	–	–	–	–	–	–	–	–	–	–	–	–
Voandzeia subterranea	–	–	–	–	–	–	–	–	–	–	–	–
Cajanus cajan	31	101	174	267	352	435	513	582	641	700	778	870
Cicer arietinum	31	101	175	267	352	435	513	582	641	700	778	870
Lens esculenta	31	101	175	267	353	435	–	583	–	700	778	870
Lupinus spp.	31	101	175	268	353	435	514	583	641	700	779	870
Minor legumes	–	102	–	268	354	–	514	–	–	700	779	871
Legumes, general	32	102	176	268	354	437	514	584	642	700	779	872

ROOT CROPS

Sugar beet	32	102	176	269	354	438	515	585	643	701	780	873
Fodder beet	34	105	180	272	357	440	517	–	–	–	782	877
Turnips and Swedes	34	106	180	272	357	440	517	587	–	704	782	–
Potatoes	35	106	181	273	357	441	518	587	646	704	782	877
Carrots	39	–	–	–	362	–	–	–	–	–	–	–
Sweet potatoes	39	109	185	277	362	445	321	589	649	706	789	881
Cassava	40	110	185	277	362	447	521	589	649	706	789	882
Yams	40	110	186	277	–	447	521	590	650	707	789	882
Cocoyams	40	110	186	278	–	448	522	590	–	707	–	–
Minor root crops	–	–	–	278	–	–	522	–	–	–	–	–
Root crops, general	40	110	186	278	362	448	522	590	–	707	789	–

FIBRE CROPS

Cotton	40	110	186	278	363	449	522	590	650	707	790	882
Fibre Flax	43	113	189	281	365	452	526	593	653	711	794	886
Hemp	43	113	190	282	365	452	–	593	653	711	795	886
Jute	–	–	190	282	366	452	526	594	653	711	–	886
Minor fibre crops	43	–	190	282	–	–	527	–	–	711	795	–
Fibre crops, general	–	–	190	–	–	–	–	–	654	–	–	–

OILSEED CROPS

Castor	44	113	190	282	366	453	527	594	654	711	796	887
Sesame	44	114	191	283	366	453	–	595	655	711	796	887
Oilseed flax	44	114	191	283	366	453	527	595	655	712	796	887
Safflower	–	114	191	283	366	453	527	595	655	–	796	887
Sunflower	44	114	191	283	367	454	528	596	655	712	796	888
Rape	46	115	193	284	–	455	529	597	656	714	798	889
Minor oilseed crops	46	115	193	285	368	–	530	–	656	714	799	889
Oilseed crops, general	47	116	194	286	369	457	530	597	–	–	799	890

MISCELLANEOUS CROPS

Tobacco	47	116	194	286	369	457	530	598	657	714	799	890
Brassica oleracea	–	–	197	287	372	459	–	599	–	–	–	892
Fodder radish	–	–	–	–	–	–	–	–	–	–	–	–
Buckwheat	48	118	197	288	372	459	532	599	658	716	801	892
Other crops	–	–	–	–	–	–	–	–	–	–	–	–
Miscellaneous crops, general	49	–	–	288	–	–	–	–	–	–	–	–

GREEN MANURES	–	118	–	–	–	–	–	–	–	–	–	893

CROP BOTANY

Physiology	49	118	197	288	372	460	532	600	658	716	802	893
Chemical composition	50	120	200	290	374	461	533	600	661	717	804	895
Morphology and anatomy	51	121	–	290	–	–	–	601	661	–	805	–
Environmental factors	51	121	200	291	375	461	533	601	661	718	805	896
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